SHARP



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As an ENERGY STAR[®] Partner, SHARP has determined that this product meets the ENERGY STAR[®] guidelines for energy efficiency. ENERGY STAR[®] is a U.S. registered trademark.

6931 MEN1

Welcome to the SHARP Family. We are pleased that you are now the owner of a SHARP Color Television – built for outstanding quality, reliability and performance.

Every SHARP Color Television set is tuned and adjusted for proper color and sound, and has passed through the most stringent quality control tests at the factory. We have prepared this OPERATION MANUAL so that you may adjust the picture and color to your personal viewing preference.

We sincerely hope that you receive the greatest satisfaction and enjoyment from your new SHARP Color Television set for years to come.

Please read these instructions carefully, and keep them handy for your future reference.

IMPORTANT

To aid reporting in case of loss or theft, please record the TV's model and serial numbers in the space provided. The numbers are located at the rear of the TV.

Model No.:

Serial No.:

Important Information

There are two important reasons for prompt warranty registration of your new SHARP television set, using the REGISTRATION CARD packed in with the set.

FIRST – WARRANTY

This is to assure that you will immediately receive the full consumer benefit of the parts, service and labor warranty applicable to your purchase.

SECOND – CONSUMER PRODUCT SAFETY ACT

To assure that you will promptly receive any safety notification on inspection, modification or recall that SHARP may be required to give under the 1972 Consumer Product Safety Act. PLEASE READ CAREFULLY THE IMPORTANT "LIMITED WARRANTY" CLAUSE ON THE LAST PAGE.

WHAT IS ENERGY STAR®

TVs and VCRs use energy both when they are on and when they are off. Americans spend more than \$1 billion a year on energy consumed by TVs and VCRs when they are not in use. The new ENERGY STAR® models will reduce that energy "leakage" by up to 75 percent. Ultimately, this will mean more than \$500 million a year in energy savings for consumers.

The energy savings will help reduce the burning of fossil fuels and the related carbon dioxide pollution that contributes to global warming. If every American family replaced their TVs and VCRs with ENERGY STAR[®] models, it would reduce carbon dioxide emissions by five million tons every year — equivalent to eliminating the pollution from more than one million cars.

By using ENERGY STAR[®] products, you will save money on your electric bills and use less energy. That makes good economic sense and it's good for our environment.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO WET LOCATIONS.



The lightning flash with arrowhead within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

"Note to CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electrical Code that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical."



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Important Information (Continued)

WARNING - FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Important Safeguards

CAUTION: Please read all of these instructions before you operate your television and save these intructions for later use.

Electrical energy can perform many useful functions. This unit has been engineered and manufactured to assure your personal safety. BUT IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARDS. In order not to defeat the safeguards incorporated in this equipment, observe the following basic rules for its installation, use and servicing.

- 1. Unplug this television equipment from the wall outlet before cleaning.
- 2. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 3. Do not use attachments not recommended by the television equipment manufacturer as they may cause hazards.
- 4. Do not use this television equipment near water for example, near a bathtub, washbowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool, etc.
- 5. Do not place this equipment on an unstable cart, stand, or table. The television equipment may fall, causing serious injury to a child or an adult, and serious damage to the equipment. Use only with a cart or stand recommended by the manufacturer or sold with the television equipment.
- Television equipment and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart combination to overturn.



- 7. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.
- 8. Slots and openings in the cabinet and the back or bottom are provided for ventilation. To insure reliable operation of the television equipment and to protect it from overheating, these openings must not be blocked or covered. This television equipment should not be placed in a built-in insulation such as a bookcase unless proper ventilation is provided.
- 9. The openings should never be covered with a cloth or other material, and the bottom openings should not be blocked by placing the television equipment on a bed, sofa, rug, or other similar surface. This television equipment should never be placed near or over a radiator or heat register.
- 10. This television equipment should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your television dealer or local power company.

For television equipment designed to operate from battery power, refer to the operating instructions.

11. As a safety feature, television equipment is equipped with a 2-wire polarized plug (one plug blade bigger than the other). The 2-wire polarized plug will fit only one way into the power outlet.

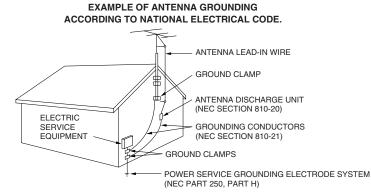
If the plug does not fit, ask your electrician to replace your obsolete outlet. Do not modify the plug and defeat this safety feature.

- 12. Do not allow anything to rest on the power cord. Do not locate this television equipment where the cord will be abused by persons walking on it.
- 13. Follow all warnings and instructions marked on the television equipment.

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Important Safeguards (Continued)

14. If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



NEC - NATIONAL ELECTRICAL CODE

- 15. For added protection for this television equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the equipment due to lightning and power-line surges.
- 16. An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 17. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
- 18. Never push objects of any kind into this television equipment through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the television equipment.
- 19. Do not attempt to service this television equipment yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 20. Unplug this television equipment from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the television equipment.
 - C. If the television equipment has been exposed to rain or water.
 - D. If the television equipment does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television equipment to normal operation.
 - E. If the television equipment has been dropped or the cabinet has been damaged.
 - F. When the television equipment exhibits a distinct change in performance this indicates a need for service.
- 21. Upon completion of any service or repairs to this television equipment, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.
- 22. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
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Supplied Accessories	
Infrared Remote Control Part Number : RRMCG1324CESA	Size AA Dry Batteries

Location

- For normal operation, your TV should be located in an area of the room where cool adequate ventilation is provided. Do not place the back of the television set in a place where free airflow will be restricted.
- Any magnetic force may disturb the color picture. Make sure that magnets, electric clocks, toys using
 magnets or any other magnetic substance, such as iron are kept well away from this TV set.

Power

Your TV operates on 120 Volts, 60 Hertz (normal household current) and has a polarized plug. If you are unable to insert the plug fully into the outlet, try reversing the plug. Should it fail to fit, contact an electrician. Do not defeat the safety feature of the polarized plug.

NOTE:

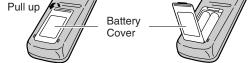
- If the set will not be used for a long period, such as during a vacation, unplug the set from the wall
 outlet to economize power. (If the TV set is plugged in, a slight current still flows, even with the
 POWER BUTTON in the OFF position.)
- Lines and other noise may appear in TV broadcast images when an FM tuner or radio is located near the TV and both radio and TV broadcasts are being received. Should such noise appear, turn off either the TV or the radio.
- If you are listening to an AM broadcast, turn the TV off. AM broadcast signals may not be received due to the interference of the TV.

Before using the television, prepare the Remote Control

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To use the remote control, insert batteries first.

Insert the batteries



With your thumbnail, pull up the slit as indicated by the arrow to remove the back cover. Insert two
batteries (size "AA"). Be sure to match the battery ⊕/⊖ terminals with the ⊕/⊖ marks inside the
compartment.

Antenna Connections

Antennas

. The antenna requirements for good color television reception are more important than those for black & white television reception. For this reason, a good quality outdoor antenna is strongly recommended.

The following is a brief explanation of the type of connections that are provided with the various antenna systems:

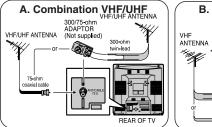
- 1. A 75 ohm system is generally a round cable with F-type connector that can easily be attached to a terminal without tools (not supplied). The F-type connector should be finger tightened only.
- F-type connector 75-ohm coaxial cable (round) 300-ohm twin-lead cable (flat)
- 2. A 300 ohm system is a flat "twin-lead" cable that can be attached to a 75 ohm terminal through a 300-75 ohm ADAPTOR (not supplied).

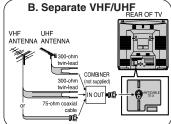
OUTDOOR ANTENNA CONNECTION

- · Use one of the following two diagrams if you connect an outdoor antenna. A: Using a VHF/UHF combination outdoor antenna. B: Using separate VHF and/or UHF outdoor antenna.
- Connect an outdoor antenna cable lead-in to the COAXIAL CABLE CONNECTOR on the rear of the



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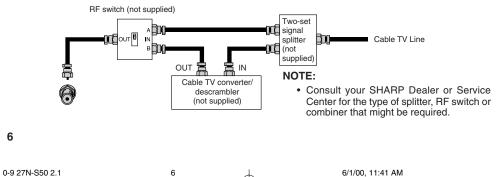
CABLE TV (CATV) CONNECTION

- A 75 ohm coaxial cable connector is built into the set for easy hookup. When connecting the 75 ohm coaxial cable to the set, screw the 75 ohm cable to the COAXIAL CABLE CONNECTOR.
- Some cable TV companies offer "premium pay channels". Since the signals of these premium pay channels are scrambled, a cable TV converter/descrambler is generally provided to the subscriber by the cable TV company. This converter/descrambler is necessary for normal viewing of the scrambled channels. (Set your TV on channel 3 or 4. Typically one of these channels is used. If this is unknown, consult your cable TV company.) For more specific instructions on installing cable TV, consult your cable TV company. One possible method of utilizing the converter/descrambler provided by your cable TV company is explained below.

Please note: RF switch equipped with position A/B (not provided) is required.

"A" position on the RF switch (not supplied) : You can view all unscrambled channels using the TV's channel keys.

"B" position on the RF switch (not supplied) : You can view the scrambled channels via the converter/ descrambler using the converter's channel keys.

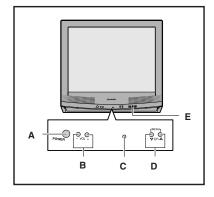


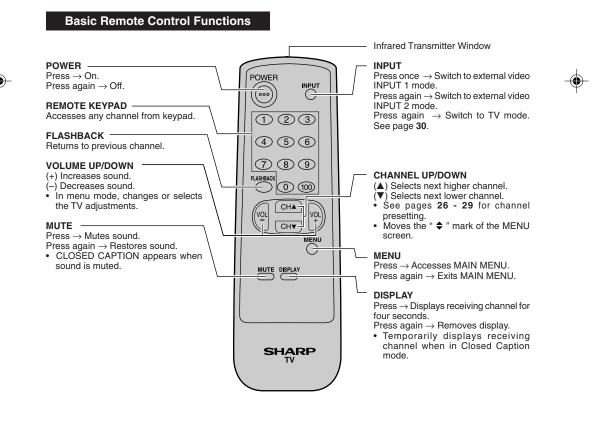
Quick Reference Control Operation

Location of Controls

Front Panel

- B VOLUME UP/DOWN
 (+) Increases sound.
 (-) Decreases sound.
- **C** SENSOR AREA FOR REMOTE CONTROL
- D CHANNEL UP/DOWN
 - (▲) Selects next higher channel.
 (▼) Selects next lower channel.
 - (V) Selects next lower channel.
 Press both at same time to access MAIN MENU Screen.
- E VIDEO/AUDIO IN 2 TERMINALS
 - (VIDEO/AUDIO terminals are also provided on the rear.)





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Referencia rápida de los controles de operación

Ubicación de los Controles Front Delantero

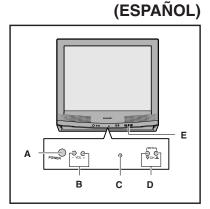
- ALIMENTACION (POWER) Α Pulsando \rightarrow Enciende (On). Pulsando nuevamente \rightarrow Apaga (Off).
- AUMENTO/DISMINUCION DEL VOLUMEN (VOL) в (+) Aumenta el sonido.

(-) Disminuye el sonido.

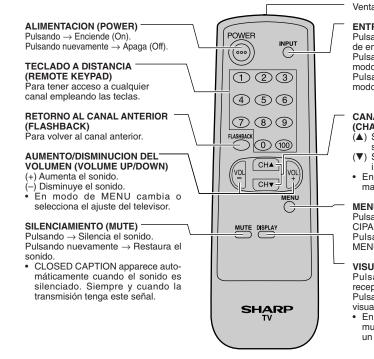
C ZONA DEL SONSOR DEL MANDOA DISTANCIA

CANAL SUPERIOR/INFERIOR (CH) D

- (▲) Selecciona el siguiente canal superior.
 (▼) Seleccioal el siguiente canal inferior.
 Pulse los dos a la misma vez para acceder a la pantalla
- de MENU PRINCIPAL.
- E TERMINALES DE ENTRADA VIDEO/AUDIO TERMINALS IN 2 (Las terminales VIDEO/AUDIO también se encuentran en la parte posterior.)



Funciones Basicas Del Control Remoto



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Ventanilla del transmisor de infrarrojos

ENTRADA (INPUT)

Pulsando una vez \rightarrow Cambia al modo de entrada 1 de video externo. Pulsando nuevamente → Cambia al modo de entrada 2 del vídeo externo. Pulsando nuevamente \rightarrow Vuelve al modo TV original.

CANAL SUPERIOR/INFERIOR (CHANNEL UP/DOWN)

- (A) Selecciona el siguiente canal superior.
- (▼) Selecciona el siguiente canal inferior.
- · En el modo de MENU, mueve la marca " 🗢

MENU (MENU)

Pulsando → Accede al MENU PRIN-CIPAI Pulsando nuevamente \rightarrow Sale del

MENU PRINCIPAL.

VISUALIZACION (DISPLAY)

 $\label{eq:Pulsando} \begin{array}{l} \mathsf{Pulsando} \rightarrow \mathsf{Aparece} \ \text{el canal de} \\ \text{recepción por cuatro segundos.} \end{array}$ Pulsando nuevamente → Elimina la visualización.

• En el modo de "Closed Caption" se muestra el canal de recepción por un corto tiempo.

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Référence rapide sur les commandes

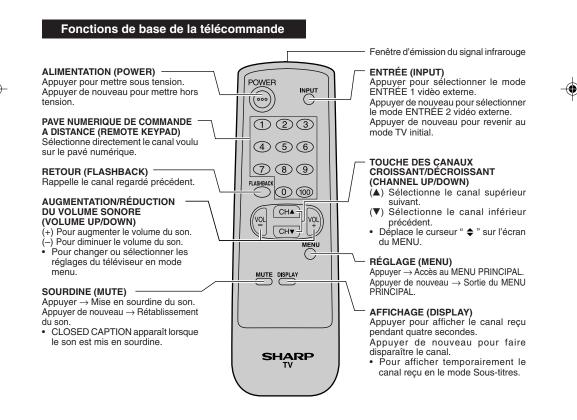
Emplacement des touches Panneau avant

- A ALIMENTATION (POWER) Appuyer pour mettre sous tension. Appuyer de nouveau pour mettre hors tension.
- B AUGMENTATION/RÉDUCTION DU VOLUME SONORE (VOL) (+) Pour augmenter le volume du son. Pour diminuer le volume du son.
- ZONE DE DÉTECTION DU CAPTEUR С
- D TOUCHES DES CANAUX CROISSANT/DÉCROISSANT (CH)
 - (A) Selectionne le canal supérieur suivant.
 - (▼) Sélectionne le canal inféfieur précédent.
 - Appuyez sur les deux poussoirs simultanément pour accéder á l'écran du MENU PRINCIPAL.
- E PRISES D'ENTRÉE VIDÉO/AUDIO IN 2 (Les prises VIDÉO/AUDIO sont également reprises à l'arriére.)

(FRANÇAIS) Е -Э_ e 2 G в

С

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	EZ SETUP during First Power On	
•	 When you turn on the TV for the first time, it will automatically memorize the broadcasting channels. Please perform the following instructions before you press the power button. (1) Insert the batteries into the remote control. (See page 5) (2) Connect the antenna cable to the TV set. (See page 6) (3) Plug in the AC POWER cord to the wall outlet. 	POWER NPUT POWER 1 2 3 4 5 6 7 8 9 PABBLEX 0 60 CHANNEL UP (▲)/ DOWN (▼) MENU
1	Press the POWER button on the TV set or on the Remote Control to turn on the TV. The SELECT LANGUAGE mode will be displayed. (On the Set) POWER POWER	SELECT LANGUAGE ◆ENGLISH ESPAÑOL FRANCAIS SELECT:CH ▲/▼ SET :VOL+/- (SELECT LANGUAGE mode)
2	Press <i>CH UP</i> (▲) or <i>DOWN</i> (▼) to select "ENGLISH", "SPANISH (ESPAÑOL)" or "FRENCH (FRANÇAIS)". CH▲ CH▼	SELECT LANGUAGE ◆ENGLISH ESPAÑOL FRANCAIS SELECT:CH ▲/▼ SET :VOL+/-
3	Press <i>VOL (+)</i> or <i>(-)</i> to access the EZ SETUP mode.	CONNECT ANTENNA OR CABLE. START EZ SETUP? YES:VOL+ NO :VOL- (EZ SETUP mode)
4	Press <i>VOL (+)</i> . The tuner will automatically search for the broadcasting and cable TV channels. (The CH No. will automatically increase when it appears.) If you want to stop the EZ SETUP process once it has	PLEASE WAIT AUTO PROGRAMMING
	started, press <i>VOL (-)</i> and it will be canceled. If you want to SETUP again, please refer to page 26 on SETUP. To cancel EZ SETUP Press <i>VOL (-)</i> .	18 STOP:VOL-
5	Once EZ SETUP is completed, the lowest channel number memorized will be displayed.	2
	 OTE: If EZ SETUP does not memorize all the channels in your region, more information on manually memorizing the channels using CI It may be difficult to PRESET all channels in an area when the bro or multiple stations are received on the same channel. Please reference of the same channel. 	please refer to page 28 for HANNEL MEMORY. adcasting signals are weak

	DEMO Mode					
	To quickly learn more about the TV set, press and hold for more than three seconds both <i>CH UP</i> (\blacktriangle) and <i>DOWN</i> (\triangledown) on the TV set. The TV set will go into DEMO mode and briefly explain the various features. To cancel DEMO mode, again press both <i>CH UP</i> (\blacktriangle) and <i>DOWN</i> (\triangledown) on the TV set.	(On the set) ▼ CH ▲ └ MENU ┘				
Accessing the MAIN MENU screen without Remote Control						
	If you misplaced your Remote Control you can still access most settings via the MAIN MENU screen when you press both $CHUP(\blacktriangle)$ and $DOWN(\heartsuit)$ on the TV set. Some features of your TV set will not be accessible without the Remote Control. If you lost your Remote Control, contact a Sharp Authorized Servicer by calling 1-800-BE-SHARP for a replacement.	(On the set) ▼ CH ▲ └ MENU ┘				
	Language					
	The language for the ON SCREEN DISPLAY can be set to ENGLISH, S Setting the ON SCREEN DISPLAY Language.	PANISH or FRENCH.				
1	Press <i>MENU</i> to access MAIN MENU screen.	◆TIMER VIDEO ADJUST AUDIO SELECT CLOSED CAPTION PARENT CONTROL ENERGY SAVE SET UP (MAIN MENU screen)	_			
2	Press <i>CH UP</i> (▲) or <i>DOWN</i> (▼) to move the "◆" mark to "SET UP". CH▲ CH▼	TIMER VIDEO ADJUST AUDIO SELECT CLOSED CAPTION PARENT CONTROL ENERGY SAVE \$SET UP				
3	Press <i>VOL</i> (+) or (-) to access SET UP mode, then press <i>CH UP</i> (\blacktriangle) or <i>DOWN</i> (∇) to move the " \Leftrightarrow " mark to "LANGUAGE".	BLUE SCREEN ¢LANGUAGE CH SETTING				
4	Press <i>VOL (+)</i> or <i>(-)</i> to access LANGUAGE change mode.	(MAIN MENU screen)				
5	Press <i>CH UP</i> (▲) or <i>DOWN</i> (▼) to select "ENGLISH", "SPANISH (ESPAÑOL)" or "FRENCH (FRANÇAIS)". CH▲ CH▼	IDIOMA IENGLISH ♦ESPAÑOL IFRANCAIS				
6	Press <i>MENU</i> to exit.	11				
10-1	8 27N-S50 11					

Sleep T	imer		
You can set	the number of minutes	for your TV to automation	cally turn off.
-	/ to access MAIN MENU (+) or (-) to access TIME		VOL + TIMER VIDEO ADJUST AUDIO SELECT CLOSED CAPTION PARENT CONTROL ENERGY SAVE SET UP (MAIN MENU screen)
3 Press VOL (4 Press MENL			INUTES. SLEEP TIMER 120 REMAIN
step 3. While Sleep T 		maining will be briefly disp	(TIMER SET mode) os and select "– – – REMAIN" durin layed on-screen at regular interval
Video A	Adjust		
Description of A	djustment Items		
Selected item PICTURE TINT COLOR BRIGHT SHARP FAVORITE COLOR RESET	VOL UP (+) button To increase contrast To make skin tones greenish To increase color intensity To increase brightness To increase sharpness To choose a RED, BLUE or ST To return all adjustments to fac		
-	U to access MAIN MENU P(▲) or <i>DOWN</i> (♥) to m	nove the "✦" mark to "VII	DEO TIMER VIDEO ADJUST AUDIO SELECT CLOSED CAPTION PARENT CONTROL ENERGY SAVE SET UP (MAIN MENU screen)
3 Press VOL	(+) or (-) to access PICT	TURE adjust mode.	(PICTURE 27 (PICTURE adjust mode
4 Press <i>CH L</i> (Refer to the	e diagram below.)		ode.

	Video Adjust (Continued)		
5	Press <i>VOL (+)</i> or <i>(-)</i> to adjust the setting.	L VOL	VOL UP (+) VOL DOWN (-) decrease contrast
6	Repeat steps 4 - 5 to adjust other settings.		
7	Press <i>MENU</i> to exit.		
	Audio Select MTS (MULTICHANNEL TV SOUND) This circuit allows reception of stereo or bilingual TV so	ound.	
_			
-	Press <i>MENU</i> to access MAIN MENU screen. Press <i>CH UP</i> (▲) or <i>DOWN</i> (♥) to move the " ♦ " mark to SELECT".	"AUDIO CH▲ CH▼	TIMER VIDEO ADJUST + AUDIO SELECT CLOSED CAPTION PARENT CONTROL ENERGY SAVE SET UP (MAIN MENU screen)
1 2 3	Press <i>CH UP</i> (▲) or <i>DOWN</i> (▼) to move the " ♦" mark to SELECT".	CHA CHV	VIDEO ADJUST \$AUDIO SELECT CLOSED CAPTION PARENT CONTROL ENERGY SAVE
3	Press <i>CH UP</i> (\blacktriangle) or <i>DOWN</i> (\blacktriangledown) to move the " \Leftrightarrow " mark to SELECT". MENU Press <i>VOL (+)</i> or (-) to access AUDIO SELECT mode.	CHA CHV CHV	VIDEO ADJUST ¢AUDIO SELECT CLOSED CAPTION PARENT CONTROL ENERGY SAVE SET UP (MAIN MENU screen) AUDIO SELECT ¢MTS :SAP

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Audio Select (Continued)

Example:

Actual screen indicating ON AIR when receiving STEREO broadcasts.	
Actual channel number	1 2
"← ON AIR" will appear next to STEREO or	
SAP when receiving STEREO or SAP	▶STEREO-ON AIR
broadcasts.	SAP ←ON AIR MONO

- You can enjoy Hi-Fi stereo sound or SAP broadcasts where available.
 (Channel call on screen)
 Stereo broadcasts
 - Live television transmission of sports, shows, concerts, etc. can be received in dynamic stereo sound. • SAP broadcasts
 - Television broadcast can be received with either MAIN or SAP sound. MAIN sound: The normal program soundtrack. (Monaural or stereo where available.) SAP sound: Second language, supplementary commentaries, etc. (SAP sound is monaural.)

If stereo sound is difficult to hear.

• You can obtain clearer sound by manually switching to fixed monaural mode.

NOTE:

- Once MONO mode is selected, the TV sound remains monaural even if the TV set receives a stereo broadcast. You must switch the mode back to STEREO if you want to hear stereo sound again.
- Selecting MTS while in the INPUT mode does not change the type of sound; in this case, sound is
 determined by the video source.

Closed Caption

HOW TO SET CLOSED CAPTION

- Your TV is equipped with an internal Closed Caption decoder. "Closed Caption" is a system which allows you to view conversations, narration, and sound effects in TV programs and home videos as subscript on your TV screen as shown on the right.
- Not all the programs and videos will offer closed caption. Please look for the "[C]" symbol to ensure that captions will be shown.
- Closed Caption broadcast can be viewed in two modes: CAPTION and TEXT. For each mode, two channels are available, CH1 and CH2:

The [CAPTION] mode subscripts dialogues and commentaries of TV dramas and news programs while allowing clear view of the picture. The [TEXT] mode displays over the picture other various information (such as TV program schedule, weather forecast, etc.) that is independent of the TV programs.



2 Press *CH UP*(▲) or *DOWN*(♥) to move the "◆" mark to "CLOSED CAPTION".



MENU

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3 Press VOL (+) or (-) to access CLOSED CAPTION setting mode.



♦MODE :CAPTION DATA :CH 1

REMOTE

KEYPAD

VOLUME

CHANNEL

DOWN (▼)

UP (▲)/

MENU

(+)/(-)

123

456

789

CHA]

TIMER

SET UP

VIDEO ADJUST AUDIO SELECT

CLOSED CAPTION

ENERGY SAVE

PARENT CONTROL

(MAIN MENU screen)

CLOSED CAPTION

CH¥-

(CLOSED CAPTION setting mode)

14

Closed Caption (Continued)	
4 Press CH UP (▲) or DOWN (▼) to move the "◆" mark to either "MODE" or "DATA". CH▲ CH▼	CLOSED CAPTION MODE :CAPTION ¢DATA :CH 1
5 Press VOL (+) or (-) to change the CLOSED CAPTION setting. MODE : CAPTION DATA : CH1 t + CH2 VOL VOL VOL	CLOSED CAPTION \$MODE : CAPTION DATA : CH 1
6 Press <i>MENU</i> to exit.	

6 Press MENU to exit.

NOTE:

- If a broadcast has CLOSED CAPTION and the *MUTE* button is pressed, the set enters [CAPTION] mode automatically. Pressing MUTE again will return the set to its previous condition.
- Closed Caption may malfunction (white blocks, strange characters, etc.) if signal conditions are poor or if there are problems at the broadcast source. This does not necessarily indicate a problem with vour set.
- If any button is pressed to call up the ON SCREEN DISPLAY while viewing a CLOSED CAPTION broadcast, the closed captions will disappear momentarily.
- When viewing in TEXT mode, if no TEXT broadcast is being received, for some programs the screen may become dark and blank. Should this occur, set the Closed Caption mode to "OFF".



Parent Control (V-CHIP Operation)



V-CHIP

- This function allows you to restrict TV programs and also allows you to control TV usage based on FCC data. This function is to prevent your children from watching violence or sexual scenes that may be harmful.
- Restriction of TV programs includes two characters that contain information about the program's MPAA rating and the TV Parental Guidelines. MPAA is restricted by age. TV Parental Guidelines are restricted by age and contents.
- Since a TV program may use either the MPAA rating or the TV Guidelines you should adjust both for complete control.

[1] MPAA RATING

RATING		
	G	GENERAL AUDIENCES. All ages admitted.
	PG	PARENTAL GUIDANCE SUGGESTED. Some material may not be suitable for children.
age	PG-13	PARENTS STRONGLY CAUTIONED. Some material may be inappropriate for children under 13.
base	R	RESTRICTED. Under 17 requires accompanying parent or adult guardian.
	NC-17	NO ONE 17 AND UNDER ADMITTED.
	Х	X Rating is an older rating that is unified with NC-17 but may be encoded on older movie's data.

• MPAA RATING (Example)

Example 1.

"PG-13" in the age-based RATING is blocked. This will automatically block the high ratings "R", "NC-17" and "X" also.

1. Use	r setting	2.	Block ta	ble
G		t	G	not to block
PG			PG	not to block
PG-13	BLOCK	age	PG-13	Select block
R	BLOCK	base	R	auto- block
NC-17	BLOCK		NC-17	auto- block
х	BLOCK	ļ	х	auto- block

Example 2.

"R" in the age-based RATING is blocked. This will automatically block the high ratings "NC-17" and "X" also.

1. Use	ble			
G		Ì	G	not to block
PG			PG	not to block
PG-13		age	PG-13	not to block
R	BLOCK	base	R	Select block
NC-17	BLOCK		NC-17	auto- block
x	BLOCK		Х	auto- block

NOTE:

• MPAA RATING is only age-based ratings.

[2] TV PARENTAL GUIDELINES

				< Conter	nt Base 😑	⇒	
	RATING	Age	D (Sexually Suggestive Dialog)	L (Adult Language)	S (Sexual Situation)	V (Violence)	FV (Fantasy Violence)
	TV-Y (All children)		_	_	_	—	—
仓	TV-Y7 (Direct to Older Children)	Ø	_		—	_	V
Age Base	TV-G (General Audience)	Ø	—	—	—	—	—
Û	TV-PG (Parental Guidance Suggested)	Ø	V	V	V	V	—
	TV-14 (Parents Strongly Cautioned)	Ø	V	V	Ø	V	—
	TV-MA (Mature Audience Only)	V	_	V	V	V	—

 \square : Content Rating can be set.

- : Content Rating can not be set (not normally broadcast by TV Station).

• TV-PARENTAL GUIDELINES (Example)

Example 1.1 : Age-Based setting

Go through all select ratings and select unblocked (---) for "AGE". This will automatically unblock everything.

	AGE	D	L	s	V	FV	
TV-Y		-	-	-	-	-	D: VIEW
TV-Y7		-	-	-	-		☑: BLOCK
TV-G		-	-	-	-	-	
TV-PG						-	
🕈 TV-14						-	
TV-MA		-				-	
	ME	٩U	: F	ET	UR	N	

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Parent Control (V-CHIP Operation Continued)

Example 1.2 : Age-Based setting

For "TV-G" select "BLOCK" for "AGE". This will automatically block the higher age ratings "TV-PG", "TV-14", "TV-MA" and "TV-G".

Furthermore, the content ratings "D", "L", "S", "V", "FV" are automatically blocked as well for "TV-PG", "TV-14" and "TV-MA" in addition to "TV-G".

Example 2.1 : Content-Based setting

For "TV-PG", "TV-14" and "TV-MA" select unblocked ("----") for each content rating but leave "AGE" blocked for "TV-PG" and "TV-14" only.

Example 2.2 : Content-Based setting

For "TV-PG", select "BLOCK" for only "V" (Violence). This will automatically block the higher ratings "TV-14-V" and "TV-MA-V" ("TV-14" and "TV-MA" for Violence content only). Please note that with these settings, blocking does NOT occur if a program is rated only "TV-MA"; it must be rated "TV-MA-V" to be blocked.

Example 3 : Reset an Age-Based setting

For "TV-14", select "BLOCK" for "AGE".

This will again automatically block the content ratings "D", "L", "S", "V", "FV" for "TV-MA" in addition to "TV-14".

Please note that the lower age rating "TV-PG" did not change from its previous settings.

NOTE:

- Content ratings can be modified but only in the combinations indicated by "I" in the table on page **16**.
- Changing a lower age-rating's content setting to "BLOCK" automatically changes the same higher age-rating's content setting to "BLOCK" regardless of their previous settings.
- Changing a lower rating's "AGE" setting to "BLOCK" automatically changes all higher ratings to "BLOCK" regardless of their previous settings.
- Any rating's "AGE" set to unblocked ("----") must have its content settings individually set.

[3] ADDITIONAL MODE

Besides the above "MPAA RATINGS" and "TV PARENTAL GUIDELINES," new ratings systems data can be downloaded when they become available. (See page **21**.)

AGE D L S V FV TV-Y □ □ U: VI TV-Y 0 □ 2: VI TV-YG 0 □ 2: BL ◆ TV-G 0 0 0 0 0 0 - TV-H4 0 0 0 0 0 - TV-H4 0 0 0 0 0 - TV-H4 0 0 0 0 0 - MENU : RETURN	
AGE D L S V FV TV-Y 0 0 S: VI TV-Y7 0 0 S: BL TV-G 0 0 0 0 TV-14 0 0 0 \$ TV-MA 0 - 0 0 - MENU : RETURN	
AGE D L S V FV TV-Y □ □ U:VIE TV-Y 0 0 U:VIE TV-G □ 0 U:BL TV-G □ 0 0 - TV-PG 0 □ 0 0 - TV-HA 0 0 0 0 - \$\$\$TV-MA 0 - 0 0 0 -	
MENU : RETURN	
AGE D L S V FV TV-Y	

MENU : RETURN

TV-MA Ø – ØØØ –

TV-G D



	MPAA RATING	CHANNEL UP (▲)/ DOWN (▼) MENU MENU
-	Press <i>MENU</i> to access MAIN MENU screen.	♦TIMER VIDEO ADJUST AUDIO SELECT CLOSED CAPTION PARENT CONTROL ENERGY SAVE SET UP (MAIN MENU screen)
	Press <i>CH UP</i> (▲) or <i>DOWN</i> (♥) to move the " \$ " mark to "PARENT CONTROL".	TIMER VIDEO ADJUST AUDIO SELECT CLOSED CAPTION \$PARENT CONTROL ENERGY SAVE SET UP
	Press <i>VOL (+)</i> or <i>(-)</i> to access PARENT CONTROL mode, then press <i>VOL (+)</i> or <i>(-)</i> to access V-CHIP select mode.	PARENT CONTROL +V-CHIP BLOCK VIEW TIMER (PARENT CONTROL mode)
4	Press <i>VOL (+)</i> or <i>(-)</i> to access "MPAA RATING".	
	Press <i>CH UP</i> (\blacktriangle) or <i>DOWN</i> (\blacktriangledown) to move the " \Leftrightarrow " mark to "PG", then press <i>VOL</i> (+) or (-) to select BLOCK. If you set "PG" to BLOCK, "PG-13", "R", "NC-17" and "X" are automatically blocked.	G : *PG :BLOCK PG-13 :BLOCK R :BLOCK NC-17 :BLOCK X :BLOCK X :BLOCK MENU:RETURN
NOT Exa • If	Repeat pressing <i>MENU</i> to return V-CHIP select mode exit.	ot blocked.

Parent Control (V-CHIP Operation Continued) [2] TV GUIDELINES						
1 2	Repeat steps 1 - 3 of [1] MPAA RATING. Press <i>CH UP</i> (▲) or <i>DOWN</i> (♥) to move the " ≑ " mark to "TV GUIDELINES". CH▲ CH▼	MPAA \$TV GUIDELINES DOWNLOAD:OFF STATUS :OFF				
3	Press <i>VOL (+)</i> or <i>(-)</i> to access TV GUIDELINES mode.	AGE D L S V FV TV-Y Ø D:VIEW ♦ TV-Y7 Ø Ø Ø:BLOCK TV-G Ø				
4	To change CONTENT SETTING, press <i>CH UP</i> (\blacktriangle) or <i>DOWN</i> (\blacktriangledown) to move the " \Leftrightarrow " to the desired rating and then press <i>VOL</i> (+) or (-) to select.	TV-PG ∅ ∅ ∅ ∅ − TV-14 ∅ − ∅ ∅ ∅ − TV-MA ∅ − ∅ ∅ ∅ − MENU : RETURN (TV GUIDELINES mode)				
5	Press <i>CH UP</i> (▲) or <i>DOWN</i> (▼) to move the " ◆ " to the desired content and then press <i>VOL</i> (+) or (-) to select either "BLOCK" or unblock (" ").	TV-PG AGE BLOCK D L V V BLOCK FV BLOCK MENU: RETURN				
		(CONTENT SETTING mode)				
6	Press <i>MENU</i> to return to TV GUIDES mode.	AGE D L S V FV TV-Y Ø □:VIEW ♦ TV-Y7 □ Ø:BLOCK TV-G Ø				
7	Repeat steps 4 - 5 until all ratings and their contents are set.	TV-PG ∅ ∅ ∅ ∅ ∅ − TV-14 ∅ − ∅ ∅ ∅ 0 − TV-MA ∅ − ∅ ∅ ∅ − MENU : RETURN				
8	When done, press <i>MENU</i> to exit.					

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3] ACTIVATE ON TO TURN ON V-		Contin	ued)
	CHIP BLOCK		
Press <i>CH UP (</i> ▲) or <i>DOWN (</i> ▼ "STATUS", then press <i>VOL (+)</i> or BLOCK. (If STATUS is OFF, V-CHIF	or (-) to activate the	V-CHIP	MPAA TV GUIDELINES
	$ \begin{array}{c} CH \blacktriangle \\ CH \blacktriangledown \end{array} \rightarrow $	VOL VOL	DOWNLOAD:OFF \$STATUS :ON
2 Press <i>MENU</i> , then "INPUT SECRI	ET No." will be displa	yed.	
			INPUT SECRET No.
B Enter the 4-digit SECRET No. usir	g the REMOTE KEY	(PAD.	
		123 456 789 06	INPUT SECRET No.
Press <i>MENU</i> and SECRET No. is	registered	MENU	
		DLOOKI	nas been activated.
"V-CHIP HAS BEEN ACTIVATED" the program with Program Rating da		ou watch	
the program with Program Rating da		ou watch	V-CHIP HAS BEEN
	ita the same as you co	ou watch onfigured.	23 V-CHIP HAS BEEN ACTIVATED TV-Y7 FV
the program with Program Rating da	ita the same as you co	ou watch onfigured.	23 V-CHIP HAS BEEN ACTIVATED TV-Y7 FV not configured to "ON".
the program with Program Rating da	ita the same as you co	ou watch onfigured.	23 V-CHIP HAS BEEN ACTIVATED TV-Y7 FV
the program with Program Rating da NOTE: • "V-CHIP HAS BEEN ACTIVATED" w 2 Press <i>MENU</i> , then "INPUT SECRI 3 Enter the 4-digit SECRET No. using	ita the same as you co ill not be displayed it ET No." will be displa	ou watch onfigured. * STATUS is yed. ••••••••••••••••••••••••••••••••••••	23 V-CHIP HAS BEEN ACTIVATED TV-Y7 FV not configured to "ON".
the program with Program Rating da NOTE: • "V-CHIP HAS BEEN ACTIVATED" w 2 Press <i>MENU</i> , then "INPUT SECRI	ill not be displayed it TNo." will be displa the REMOTE KEYI canceled. If the wrong CORRECT" will be d	ou watch onfigured. * STATUS is yed. ••••••••••••••••••••••••••••••••••••	23 V-CHIP HAS BEEN ACTIVATED TV-Y7 FV not configured to "ON".

	To change the V CHIP PLOCK patting (Secret No. is register	od)
-	To change the V-CHIP BLOCK setting. (Secret No. is register	ed.)
1	Repeat steps 1 - 3 of [1] MPAA RATING , then "INPUT SECRET No." will be displayed.	INPUT SECRET No.
2	Enter the 4-digit SECRET No. using the REMOTE KEYPAD and the V-CHIP select mode will be displayed. Repeat configuration of the V-CHIP BLOCK.	INPUT SECRET No. * * * *
	If you intend to change or have forgotten your Secret No., clea and set up a new one.	r the original Secret No
1	Repeat steps 1 - 3 of [1] MPAA RATING , or 1 - 2 of [To cancel the V-CHIP BLOCK screen while V-CHIP BLOCK has been activated], then "INPUT SECRET No." will be displayed.	
2	Press and hold both <i>VOL (+)</i> and <i>CH DOWN (▼)</i> on the TV set simultaneously until the message "INPUT SECRET No." disappears.	(On the set)
	MENU MENU	
3	Press <i>MENU</i> two times to exit.	
-	Droop MENII two timop to ovit	lease set up as follow
[3] 1	 Press <i>MENU</i> two times to exit. -A. Additional mode (DOWNLOAD) There will be an additional new rating system. In that case, p 	MPAA TV GUIDELINES
[3] 1	 Press <i>MENU</i> two times to exit. -A. Additional mode (DOWNLOAD) There will be an additional new rating system. In that case, p Subsequently the new rating system will set up automatically. Repeat steps 1 - 3 of [1] MPAA RATING. Press <i>CH UP</i> (▲) or <i>DOWN</i> (▼) to move the " ≑" mark to 	МРАА
[3] 1 2	Press MENU two times to exit. -A. Additional mode (DOWNLOAD) There will be an additional new rating system. In that case, p Subsequently the new rating system will set up automatically. Repeat steps 1 - 3 of [1] MPAA RATING. Press CH UP (▲) or DOWN (▼) to move the " ≑ " mark to "DOWNLOAD". CH▲	MPAA TV GUIDELINES ¢DOWNLOAD:OFF
[3] 1 2	Press MENU two times to exit. -A. Additional mode (DOWNLOAD) There will be an additional new rating system. In that case, p Subsequently the new rating system will set up automatically. Repeat steps 1 - 3 of [1] MPAA RATING. Press CH UP (▲) or DOWN (▼) to move the " ÷" mark to "DOWNLOAD". CH▲ CH▼	MPAA TV GUIDELINES DOWNLOAD:OFF STATUS :OFF

	Parent Control (V-CHIP Operation Continued)
	DOWNLOAD V-CHIP DATA
1	If you watch the program with "New Rating System Data", DOWNLOAD screen will be displayed. Now DOWNLOAD ING V-CHIP DATA
2	DOWNLOAD screen will disappear, if DOWNLOAD is finished.
•	DTE: DOWNLOAD would not be started if you don't watch the program with "New Rating Systen Data". -B. Additional mode (Example)
	Repeat steps 1 - 2 of [3] Additional mode . Press <i>CH UP</i> (▲) or <i>DOWN</i> (▼) to move the " ≎ " mark to "Cdn. English Ratings", then press <i>VOL</i> (+) or (-).
	Press CH UP (\blacktriangle) or DOWN (\blacktriangledown) to move the " \Leftrightarrow " mark to "Cdn. English Ratings", then press VOL (+) or (-). CH \bigstar \rightarrow (VOL (VOL (VOL (VOL (VOL (VOL (VOL (VOL
2	Press CH UP (\blacktriangle) or DOWN (\blacktriangledown) to move the " \Leftrightarrow " mark to "Cdn. English Ratings", then press VOL (+) or (-). CH \bigstar \rightarrow (VOL (VOL (+) ON STATUS : ON
2	Press <i>CH</i> UP (\blacktriangle) or <i>DOWN</i> (\checkmark) to move the " \diamond " mark to "Cdn. English Ratings", then press <i>VOL</i> (+) or (-). CH \checkmark \rightarrow (VoL CH \checkmark \rightarrow (VoL CH \checkmark \rightarrow (VoL (After downloading the rating data You can select "BLOCK" or "" (unblock) from each RATING mode by pressing <i>CH</i> UP (\bigstar) or <i>DOWN</i> (\checkmark) and <i>VOL</i> (+) or (-). CH \blacktriangle (VoL CH \checkmark (VoL CH \land
2	Press <i>CH</i> UP (\blacktriangle) or <i>DOWN</i> (\checkmark) to move the " \Rightarrow " mark to "Cdn. English Ratings", then press <i>VOL</i> (+) or (-). CH \bigstar \rightarrow (\bigcirc
2 3 4	Press <i>CH</i> UP (\blacktriangle) or <i>DOWN</i> (\checkmark) to move the " \diamond " mark to "Cdn. English Ratings", then press <i>VOL</i> (+) or (-). CHA $\rightarrow \lor$ UP (After downloading the rating data You can select "BLOCK" or "" (unblock) from each RATING mode by pressing <i>CH</i> UP (\bigstar) or <i>DOWN</i> (\checkmark) and <i>VOL</i> (+) or (-). CHA \lor UP (\downarrow) (\downarrow)

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	Parent Control (VIEW TIMER)	
	VIEW TIMER This function allows you to restrict TV viewing time and also allows This function is to prevent your children from watching too much VIEWING TIME (an accumulative timer: counts only the time duration acquired while the TV is on.) VIEWING TIME can be set from 30M (30 minutes) to 10H00M (10 hours) in 30 minutes intervals. OFF TIME (Restricts TV watching after the VIEWING TIME reaches zero.) OFF TIME can be set from 30M (30 minutes) to 10H00M (10 hours) in 30 minutes intervals. STATUS (ON/OFF setting of VIEW TIMER)	
∎ 1 2	How to set VIEW TIMER. Press <i>MENU</i> to access MAIN MENU screen. Press <i>CH UP</i> (\blacktriangle) or <i>DOWN</i> (\triangledown) to move the " \diamondsuit " mark to "PARENT CONTROL".	TIMER VIDEO ADJUST AUDIO SELECT CLOSED CAPTION \$PARENT CONTROL ENERGY SAVE SET UP (MAIN MENU screen)
	Press <i>VOL</i> (+) or (-) to access PARENT CONTROL mode. Press <i>CH UP</i> (\blacktriangle) or <i>DOWN</i> (\triangledown) to move the " \diamondsuit " mark to "VIEW TIMER". $(VOL \qquad VOL \qquad VOL \qquad VOL \qquad CH \checkmark$	PARENT CONTROL V-CHIP BLOCK ¢VIEW TIMER (PARENT CONTROL mode)
5	Press <i>VOL (+)</i> or <i>(-)</i> to access "VIEW TIMER".	VIEW TIMER VIEW TIMER VIEWING TIME HM OFF TIME HM STATUS :OFF
6	Press CH UP (\blacktriangle) or DOWN (\blacktriangledown) to select "VIEWING TIME" and "OFF TIME". For each selection, press the VOL (+) or (-) to set the time duration. CHA \rightarrow (VOL (+) or (-) to set the time duration.	VIEW TIMER VIEWING TIME 2H 00M ¢OFF TIME HM STATUS:OFF
7	Press CH UP (▲) or DOWN (▼) to select "STATUS". Press the VOL (+) or (-) to turn ON the "VIEWING TIMER". (If STATUS is OFF, VIEW TIMER is not operated)	VIEW TIMER VIEWING TIME 2H 00M OFF TIME 5H 00M \$STATUS:ON
8	Press <i>MENU</i> . "INPUT SECRET No." will be displayed.	INPUT SECRET No.

L	Parent Control (VIEW TIMER Continued)	
	Enter the 4-digit SECRET No. using the REMOTE KEYPAD . Press MENU , and SECRET No. is registered. $\bigcirc \bigcirc $	INPUT SECRET No. 1 2 3 0
	ample:	
	To restrict anybody from watching the TV for 5 hours, after watching the TV for 2 hours, your settings would look like this: They can choose to watch the 2 hours of TV however they wish. For example, they could watch 1 hour of TV, turn TV off for 30 minutes, then turn TV on and watch the remaining 1 hour on the VIEWING TIMER.	VIEW TIMER VIEWING TIME 2H 00M OFF TIME 5H 00M \$STATUS:ON
1	To change the VIEW TIMER settings. (SECRET No. is registered) Repeat "How to set VIEW TIMER" steps and select "PARENT CONTROL VIEW TIMER" during step 3. Press VOL (+) or (-), and "INPUT SECRET No." will be displayed.	INPUT SECRET No.
2	Enter the 4-digit SECRET No. using the REMOTE KEYPAD , and the VIEW TIMER access screen will be displayed. Repeat step 5 - 6 .	INPUT SECRET No. * * * *
N	 DTE:	
	When you choose the correct SECRET No., the VIEW TIMER access screen is displayed. If the wrong SECRET No. is chosen, "SECRET No. IS INCORRECT" is displayed. Input the SECRET No. again in this case.	SECRET No. IS INCORRECT
	To cancel the VIEW TIMER (While the TV set is OFF but the VIEW TIMER is set)	TIME OVER
1	Turn on TV; a blue screen message "TIME OVER" will appear. If you do nothing, the TV will turn off in approximately 30 seconds.	INPUT SECRET No.
2	Enter the 4-digit SECRET No. using the REMOTE KEYPAD . When you choose the correct SECRET No., the VIEW TIMER is canceled. If the wrong SECRET No. is chosen, "SECRET No. IS INCORRECT" is displayed. Input the SECRET No. again in this case.	TIME OVER INPUT SECRET No. * * * *
	To cancel the VIEW TIMER setting or change the SECRET	
1	No. (When you forget the SECRET No.) Repeat "How to set VIEW TIMER" steps and select "PARENT CONTROL VIEW TIMER" during step 3. Press VOL (+) or (-), and "INPUT SECRET	INPUT SECRET No.

	Parent Control (VIEW TIMER Continued)	
2	Press and hold both <i>VOL (+)</i> and <i>CH DOWN</i> (▼) on the TV set simultaneously until the VIEW TIMER access screen is displayed. Now you can cancel the VIEW TIMER settings or can change the SECRET No. while "INPUT SECRET No." is displayed.	(On the set) - ^{VOL} + ▼ ^{CH} O O O O O O O O O O O O O O O O O O O
	Notice of Remaining VIEWING TIME For every 30 minute interval, the "remaining time" will be displayed for four seconds. For the last five minutes, the "remaining time" will be displayed every minute. "0 REMAIN" will be displayed for 10 seconds just before the VIEWING TIME is completed.	VIEWING TIME OH 30M REMAIN VIEWING TIME OH 05M REMAIN VIEWING TIME O REMAIN
	Energy Save	
	This feature lets you lower the power consumption of your TV set which in turn saves you money and minimizes the impact on the environment. When this feature is turned on, it reduces the brightness of the TV to a level that consumes approximately 20 percent less energy than when the feature is turned off. The reduction in brightness will be less noticeable under low room lighting conditions.	① ② ③ REMOTE ④ ⑤ ⑥ VOLUME ● ⑤ ⑨ O ⑨ ● ⑤ ⑨ O ⑨ ● ◎ ● O ⑨ ● ○ ● O ⑨ ● ○ O ⑨ ● ○ O ⑨ ● ○ O ⑨ ● ○ O ⑨ ● ○ O ⑨ ● ○ O ⑨ ● ○ O ⑨ ● ○ O ⑨ ● ○ ● ○
1 2	Press <i>MENU</i> to access MAIN MENU screen. Press <i>CH UP</i> (\blacktriangle) or <i>DOWN</i> (\blacktriangledown) to move the " \Leftrightarrow " mark to "ENERGY SAVE". MENU \rightarrow CH \checkmark CH \checkmark	TIMER VIDEO ADJUST AUDIO SELECT CLOSED CAPTION PARENT CONTROL ENERGY SAVE SET UP (MAIN MENU screen
3	Press VOL (+) or (-) to access ENERGY SAVE select mode.	ENERGY SAVE : OFF
	VOL VQL	(ENERGY SAVE select mode
4	Press VOL (+) or (-) to select "ON".	ENERGY SAVE

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	Set Up	
•	EZ SETUP By operating the channel presetting functions, you can preset your TV to the desired channels for viewing.	1 2 3 4 3 6 7 8 9 PASSAGE (+)/(-) CHANNEL UP (▲)/ DOWN (▼) MENU
	Press <i>MENU</i> to access MAIN MENU screen. Press <i>CH UP</i> (▲) or <i>DOWN</i> (♥) to move the "♦" mark to "SET UP". MENU → CH▲ CH▼	TIMER VIDEO ADJUST AUDIO SELECT CLOSED CAPTION PARENT CONTROL ENERGY SAVE \$SET UP (MAIN MENU screen)
3	Press <i>VOL</i> (+) or (-) to access SET UP mode, then press <i>CHUP</i> (\blacktriangle) or <i>DOWN</i> (\heartsuit) to move the " \diamondsuit " mark to "CH SETTING".	BLUE SCREEN LANGUAGE ¢CH SETTING
4	Press <i>VOL (+)</i> or <i>(-)</i> to access CH SETTING mode.	(SET UP mode) +EZ SETUP AIR/CABLE CH SEARCH CH MEMORY
5	Press <i>VOL (+)</i> or <i>(-)</i> to access EZ SETUP mode.	(CH SETTING mode)
6	Press <i>VOL (+)</i> . The tuner will automatically search for the broadcasting and cable TV channels. (The CH No. will automatically increase when it appears.) If you want to stop the EZ SETUP process once it has started, press <i>VOL (-)</i> . Search will be canceled. To cancel EZ SETUP Press <i>VOL (-)</i> .	PLEASE WAIT AUTO PROGRAMMING 18 STOP:VOL-
7	Once EZ SETUP is completed, the lowest channel number memorized will be displayed.	2

	Set Up (Continued)	
	CHANNEL SETTING If EZ SETUP does not memorize all the channels in your region, follo to manually memorize the channel.	ow the instructions below
1	Press MENU to access MAIN MENU screen.	
2	Press CH UP (\blacktriangle) or DOWN (\triangledown) to move the " \diamondsuit " mark to "SET UP". MENU \rightarrow CH \checkmark CH \checkmark	TIMER VIDEO ADJUST AUDIO SELECT CLOSED CAPTION PARENT CONTROL ENERGY SAVE \$SET UP (MAIN MENU screen)
3	Press VOL (+) or (-) to access SET UP mode.	
-	Press <i>CH UP</i> (\blacktriangle) or <i>DOWN</i> (\blacktriangledown) to move the " \diamondsuit " mark to "CH SETTING".	BLUE SCREEN LANGUAGE ¢CH SETTING
		(SET UP mode)
5	Press <i>VOL (+)</i> or <i>(–)</i> to access CH SETTING mode.	◆EZ SETUP AIR/CABLE CH SEARCH CH MEMORY
		(CH SETTING mode)
6	Press CH UP (\blacktriangle) or DOWN (\blacktriangledown) to move the " \diamondsuit " mark to the "AIR/CABLE", then press VOL (+) or (-) to access AIR/CABLE mode.	EZ SETUP \$AIR/CABLE CH SEARCH CH MEMORY
		(CH SETTING mode)
7	Press <i>CH UP</i> (▲) or <i>DOWN</i> (▼) to move the "≑" mark to the desired mode.	AIR/CABLE
	CH▲ CH▲ CH▲ CH▲	¢AIR CABLE STD ¢CABLE HRC ¢CABLE IRC (AIR/CABLE mode)
8	Press <i>MENU</i> to exit.	
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6/1/00, 11:44 AM

 Saving broadcast TV channels into memory. 1.1 Press MENU to access MAIN MENU screen, then press CH UP (△) or DOWN (♥) to move the "\$" mark to "SET UP. 1.2 Press VOL (+) or (-) to access SET UP mode. 1.3 Press VOL (+) or (-) to access CH VE (△) or mode. 1.4 Press VOL (+) or (-) to access CH SEARCH (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (□) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0) → (0)		Set Up (Continued)	
 1.1 Press MENU to access CH UP (A) or DOWN(♥) to move the "\$" mark to "SET UP". 1.2 Press VOL (4) or (-) to access SET UP mode, then press CH UP (A) or DOWN (♥) to move the "\$" mark to "CH SETTING". 1.3 Press VOL (4) or (-) to access CH SETTING mode. 1.4 Press CH UP (A) or DOWN (♥) to move the "\$" mark to "CH SEARCH" then press VOL (4) or (-) to access CH SEARCH (CH through all available channels in your area and add them into the TV's memory. STOP 2.2 Press VOL (-). CH SEARCH will stop at the current channel and will not add any higher channels. 2.3 Press MENU to exit. Adding weak or additional channels or erasing unwanted channels from TV memory. 1.4 Press MENU to access SET UP mode. 2.5 Press VOL (-) CH SEARCH will stop at the current channels and will not add any higher channels. 2.3 Press MENU to access MAIN MENU screen, then press CH UP (A) or DOWN (♥) to move the "\$" mark to "CH SETTING". 1.4 Press VOL (+) or (-) to access SET UP mode, then press CH UP (A) or DOWN (♥) to move the "\$" mark to "CH SETTING". 1.5 Press VOL (+) or (-) to access SET UP mode, then press CH UP (A) or DOWN (♥) to move the "\$" mark to "CH SETTING". 1.6 Press VOL (+) or (-) to access SET UP mode, then press CH UP (A) or DOWN (♥) to move the "\$" mark to "CH SETTING". 1.7 Press VOL (+) or (-) to access CH SETTING then press CH UP (A) or DOWN (♥) to move the "\$" mark to "CH SETTING". 1.8 Press VOL (+) or (-) to access CH SETTING mode, then press CH UP (A) or DOWN (♥) to move the "\$" mark to "CH SETTING mode, then press CH UP (A) or DOWN (♥) to move the "\$" mark to "CH SETTING mode, then press CH UP (A) or DOWN (♥) to move the "\$" mark to "CH SETTING mode, then press CH UP (A) or DOWN (♥) to move the "\$" mark to "CH SETTING mode, then press CH UP (A) or DOWN (♥) to move the "\$" mark to "CH SETTING mode, then press CH UP (A) or DOWN (♥) to move the "\$" mark to "CH SETTING mode, then press CH UP		Saving broadcast TV channels into memory.	
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 SETTING mode. 1.4 Press <i>CH UP</i>(▲) or <i>DOWN</i>(♥) to move the "♦" mark to "CH SEARCH", then press <i>VOL</i>(+) or (-) to access CH SEARCH or mode. START 2.1 Press <i>VOL</i>(+). The tuner will search through all available channels in your area and add them into the TV's memory. STOP 2.2 Press <i>VOL</i>(-). CH SEARCH will stop at the current channel and will not add any higher channels. 2.3 Press <i>MENU</i> to exit. Adding weak or additional channels or erasing unwanted channels from TV memory. 1.1 Press <i>VOL</i>(+) or (-) to access SET UP mode, then press <i>CH UP</i>(▲) or <i>DOWN</i>((♥) to move the "♦" mark to "CH SETTING". 1.2 Press <i>VOL</i>(+) or (-) to access SET UP mode, then press <i>CH UP</i>(△) or <i>DOWN</i>((♥) to move the "♦" mark to "CH SETTING mode, then press <i>CH UP</i>(△) or <i>DOWN</i>((♥) to move the "♦" mark to "CH 3.3 Press <i>VOL</i>(+) or (-) to access CH WP(△) or <i>DOWN</i>((♥) to move the "♦" mark to "CH 3.4 Press <i>VOL</i>(+) or (-) to access CH WP(△) or <i>DOWN</i>((♥) to move the "♦" mark to "CH 3.5 Press <i>VOL</i>(+) or (-) to access CH MEMORY. 3.6 CH UP(△) or <i>DOWN</i>((♥) to move the "♦" mark to "CH 3.7 Press <i>VOL</i>(+) or (-) to access CH MEMORY. 3.8 CH UP(△) or <i>DOWN</i>((♥) to move the "♦" mark to "CH 3.9 Press <i>VOL</i>(+) or (-) to access CH MEMORY. 3.1 Press <i>VOL</i>(+) or (-) to access CH MEMORY. 3.1 Press <i>VOL</i>(+) or (-) to access CH MEMORY. 3.2 Use <i>CH UP</i>(△) or <i>DOWN</i>(♥) or <i>REMOTE KEYPAD</i> to select each desired channel or <i>DOWN</i> 3.4 Or <i>CH</i> 3.5 CH UP(△) or <i>DOWN</i>(♥) or <i>REMOTE KEYPAD</i> to select each desired channel or <i>DOWN</i> 		SETTING".	()
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 2.1 Press VOL (+). The tuner will search through all available channels in your area and add them into the TV's memory. STOP 2.2 Press VOL (-). CH SEARCH will stop at the current channel and will not add any higher channels. 2.3 Press MENU to exit. Adding weak or additional channels or erasing unwanted channels from TV memory. 1.1 Press MENU to access MAIN MENU screen, then press CH UP (▲) or DOWN (▼) to move the "\$ mark to "CH UP". 1.2 Press VOL (+) or (-) to access SET UP mode, then press CH UP (▲) or DOWN (▼) to move the "\$ mark to "CH SETTING". 1.3 Press VOL (+) or (-) to access CH UP (▲) or DOWN (▼) to move the "\$ mark to "CH SETTING mode, then press CH UP (▲) or DOWN (▼) to move the "\$ mark to "CH SETTING mode. 1.3 Press VOL (+) or (-) to access CH UP (▲) or DOWN (▼) to move the "\$ mark to "CH MEMORY". 2.1 Press VOL (+) or (-) to access CH MEMORY. 2.2 Use CH UP (▲) or DOWN (▼) or REMOTE KEYPAD to select each desired channel to add or erase. 	1.	4 Press CH UP (▲) or DOWN (▼) to move the "◆" mark to "CH SEARCH", then press VOL (+) or (-) to access CH SEARCH)
 2.1 Press VOL (4). The tuner will search through all available channels in your area and add them into the TV's memory. STOP 2.2 Press VOL (-). CH SEARCH will stop at the current channel and will not add any higher channels. 2.3 Press MENU to exit. Adding weak or additional channels or erasing unwanted channels from TV memory. 1.1 Press MENU to access MAIN MENU screen, then press CH UP (△) or DOWN (▼) to move the "\$" mark to "SET UP". 1.2 Press VOL (+) or (-) to access SET UP mode, then press CH UP (△) or DOWN (▼) to move the "\$" mark to "CH 1.3 Press VOL (+) or (-) to access CH UP (△) or DOWN (▼) to move the "\$" mark to "CH SETTING". 1.3 Press VOL (+) or (-) to access CH UP (△) or DOWN (▼) to move the "\$" mark to "CH SETTING". 2.1 Press VOL (+) or (-) to access CH UP (△) or DOWN (▼) to move the "\$" mark to "CH SETTING mode, then press CH UP (△) or DOWN (▼) to move the "\$" mark to "CH SETTING the press CH UP (△) or DOWN (▼) or access CH UP (△) or DOWN (▼) to move the "\$" mark to "CH SETTING mode, then press CH UP (△) or DOWN (▼) or REMOTE KEYPAD to select each desired channel to add or erase. 	-		,
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 the current channel and will not add any higher channels. 2.3 Press <i>MENU</i> to exit. Adding weak or additional channels or erasing unwanted channels from TV memory. 1.1 Press <i>MENU</i> to access MAIN MENU screen, then press <i>CH UP</i> (▲) or <i>DOWN</i> (♥) to move the "\$" mark to "SET UP". 1.2 Press <i>VOL</i> (+) or (-) to access SET UP mode, then press <i>CH UP</i> (▲) or <i>DOWN</i> (♥) to move the "\$" mark to "CH SETTING". 1.3 Press <i>VOL</i> (+) or (-) to access CH UP (▲) or <i>DOWN</i> (♥) to move the "\$" mark to "CH SETTING mode, then press <i>CH UP</i> (▲) or <i>DOWN</i> (♥) to move the "\$" mark to "CH SETTING mode, then press <i>CH UP</i> (▲) or <i>DOWN</i> (♥) to move the "\$" mark to "CH SETTING mode, then press <i>CH UP</i> (▲) or <i>DOWN</i> (♥) to move the "\$" mark to "CH SETTING mode, then press <i>CH UP</i> (▲) or <i>DOWN</i> (♥) to move the "\$" mark to "CH SETTING mode, then press <i>CH UP</i> (▲) or <i>DOWN</i> (♥) to move the "\$" mark to "CH SETTING mode, then press <i>CH UP</i> (▲) or <i>DOWN</i> (♥) to move the "\$" mark to "CH SETTING mode, then press <i>CH UP</i> (▲) or <i>DOWN</i> (♥) to move the "\$" mark to "CH SETTING mode, then press <i>CH UP</i> (▲) or <i>DOWN</i> (♥) to move the "\$" mark to "CH SETTING mode, then press <i>CH UP</i> (▲) or <i>DOWN</i> (♥) to move the "\$" mark to "CH SETTING mode, then press <i>CH UP</i> (▲) or <i>DOWN</i> (♥) or <i>REMOTE KEYPAD</i> to select each desired channel to add or erase. 	_	(STOP)	
 2.3 Press MENU to exit. Adding weak or additional channels or erasing unwanted channels from TV memory. 1.1 Press MENU to access MAIN MENU screen, then press CH UP (▲) or DOWN (♥) to move the "\$" mark to "SET UP mode, then press CH UP (▲) or DOWN (♥) to move the "\$" mark to "CH SETTING". 1.3 Press VOL (+) or (-) to access CH UP (▲) or DOWN (♥) to move the "\$" mark to "CH SETTING mode, then press CH UP (▲) or DOWN (♥) to move the "\$" mark to "CH SETTING mode, then press CH UP (▲) or DOWN (♥) to move the "\$" mark to "CH SETTING mode, then press CH UP (▲) or DOWN (♥) to move the "\$" mark to "CH SETTING mode, then press CH UP (▲) or DOWN (♥) to move the "\$" mark to "CH SETTING mode, then press CH UP (▲) or DOWN (♥) to move the "\$" mark to "CH SETTING mode, then press CH UP (▲) or CH SETTING mode, then press CH UP (▲) or CH SETTING mode, then press CH UP (▲) or DOWN (♥) to move the "\$" mark to "CH SETTING mode, then press CH UP (▲) or CH SETTING mode, then press CH UP (▲) or CH SETTING mode, then press CH UP (▲) or DOWN (♥) to move the "\$" mark to "CH SETTING mode. 2.1 Press VOL (+) or (-) to access CH MEMORY. 2.2 Use CH UP (▲) or DOWN (♥) or REMOTE KEYPAD to select each desired channel to add or erase. 		the current channel and will not add any	
 1.1 Press <i>MENU</i> to access MAIN MENU screen, then press <i>CH UP</i> (▲) or <i>DOWN</i> (♥) to move the "◆" mark to "SET UP. 1.2 Press <i>VOL</i> (+) or (-) to access SET UP mode, then press <i>CH UP</i> (▲) or <i>DOWN</i> (♥) to move the "◆" mark to "CH SETTING". 1.3 Press <i>VOL</i> (+) or (-) to access CH SETTING mode, then press <i>CH UP</i> (▲) or <i>DOWN</i> (♥) to move the "◆" mark to "CH 2.1 Press <i>VOL</i> (+) or (-) to access CH MEMORY. 2.2 Use <i>CH UP</i>(▲) or <i>DOWN</i> (♥) or <i>REMOTE KEYPAD</i> to select each desired channel to add or erase. 		3 Press MENU to exit.	
screen, then press <i>CH UP</i> (\blacktriangle) or <i>DOWN</i> (\bigtriangledown) to move the " \diamond " mark to "SET UP". 1.2 Press <i>VOL</i> (+) or (-) to access SET UP mode, then press <i>CH UP</i> (\bigstar) or <i>DOWN</i> (\bigtriangledown) to move the " \diamond " mark to "CH SETTING". 1.3 Press <i>VOL</i> (+) or (-) to access CH SETTING mode, then press <i>CH UP</i> (\bigstar) or <i>DOWN</i> (\bigtriangledown) to move the " \diamond " mark to "CH SETTING mode, then press <i>CH UP</i> (\bigstar) or <i>DOWN</i> (\bigtriangledown) to move the " \diamond " mark to "CH SETTING mode, then press <i>CH UP</i> (\bigstar) or <i>DOWN</i> (\bigtriangledown) to move the " \diamond " mark to "CH SETTING mode, then press <i>CH UP</i> (\bigstar) or <i>DOWN</i> (\bigtriangledown) to move the " \diamond " mark to "CH SETTING mode, then press <i>CH UP</i> (\bigstar) or <i>DOWN</i> (\bigtriangledown) to move the " \diamond " mark to "CH SETTING mode, then press <i>CH UP</i> (\bigstar) or <i>DOWN</i> (\bigtriangledown) to move the " \diamond " mark to "CH SETTING mode, then press <i>CH UP</i> (\bigstar) or <i>DOWN</i> (\bigtriangledown) to move the " \diamond " mark to "CH MEMORY". 2.1 Press <i>VOL</i> (+) or (-) to access CH MEMORY. 2.2 Use <i>CH UP</i> (\bigstar) or <i>DOWN</i> (\bigtriangledown) or <i>REMOTE</i> <i>KEYPAD</i> to select each desired channel to add or erase. CH \checkmark or CH \bigstar or CH \bigstar OF CH \checkmark OF CH \land OF CH			nnels from TV memory.
1.2 Press VOL (+) or (-) to access SET UP mode, then press CH UP (\blacktriangle) or DOWN (\bigtriangledown) to move the " \diamond " mark to "CH SETTING". 1.3 Press VOL (+) or (-) to access CH SETTING mode, then press CH UP (\checkmark) or DOWN (\checkmark) to move the " \diamond " mark to "CH MEMORY". 2.1 Press VOL (+) or (-) to access CH MEMORY. 2.2 Use CH UP (\bigstar) or DOWN (\checkmark) or REMOTE KEYPAD to select each desired channel to add or erase. 1.3 Press VOL (+) or (-) to access CH MEMORY. 2.4 Use CH UP (\bigstar) or DOWN (\checkmark) or REMOTE (CH \bigstar or \bigcirc \bigcirc \bigcirc CH \checkmark or \bigcirc	1.	screen, then press <i>CH UP</i> (▲) or <i>DOWN</i> (▼) to move the "◆" mark to "SET	AIR/CABLE CH SEARCH
 1.3 Press VOL (+) or (-) to access CH SETTING mode, then press CH UP (▲) or DOWN (▼) to move the "\$" mark to "CH MEMORY". 2.1 Press VOL (+) or (-) to access CH MEMORY. 2.2 Use CH UP (▲) or DOWN (▼) or REMOTE KEYPAD to select each desired channel to add or erase. 	1.	mode, then press CH UP (\blacktriangle) or $(v_0 \downarrow \downarrow \downarrow) \rightarrow DOWN$ (∇) to move the " \Leftrightarrow " mark to "CH $(v_0 \downarrow \downarrow \downarrow) \rightarrow CH \nabla$	
 Use CH UP (▲) or DOWN (▼) or REMOTE KEYPAD to select each desired channel to add or erase. 	1.	3 Press <i>VOL (+)</i> or <i>(-)</i> to access CH SETTING mode, then press <i>CH UP</i> (▲) or <i>DOWN</i> (♥) to move the "♦" mark to "CH]
2.2 Use CH UP (▲) or DOWN (▼) or REMOTE KEYPAD to select each desired channel to add or erase. CH▲ CH▼ 0 CH▼ 0 CH▼ 0 CH▼ 0	2.	1 Press VOL (+) or (-) to access CH MEMORY.)
		2 Use <i>CH UP</i> (▲) or <i>DOWN</i> (♥) or <i>REMOTE</i> <i>KEYPAD</i> to select each desired channel to add or erase. CH▲ or CH▼ or CH▼	

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Set Up (Continued)	
2.4 Press MENU to exit. CH MEMORY AIR 12 TO ADD :+ (CH MEMORY unmemorized channel) CH MEMORY (CH MEMORY UNDECI- TO erase channel 12 from the TV memory CH MEMORY UNDECI- TO erase channel 12 from the TV memory CH MEMORY UNDECI- TO ERASE :- (CH MEMORY memorized channel) MENU CH MEMORY UNDECI- TO ERASE :- (CH MEMORY memorized channel) MENU CH MEMORY UNDECI- TO ERASE :- (CH MEMORY memorized channel) MENU CH MEMORY MENU CH MEMORY MENU CH MEMORY MENU CH MEMORY MENU MENU	
 • If you press VOL (+) again while in the CH SEARCH mode, auto-program will start again, and the 	
previously memorized channels will be lost. BLUE SCREEN	
Automatically turns the screen blue if a broadcast signal is not received.	
Press <i>MENU</i> to access MAIN MENU screen. Press <i>CH UP</i> (▲) or <i>DOWN</i> (▼) to move the "◆" mark to "SET UP". MENU MENU CH▲ CH▲ CH▲ CH▲ CH▲ CH▲ CH▲ C	
Press VOL (+) or (-) to access SET UP mode.	-(
VOL VOL (SET UP mode)	
Press VOL (+) or (-) to access BLUE SCREEN select mode.	
(BLUE SCREEN select mode)	
Press VOL (+) or (-) to select "ON".	
VOL VOL	
Press <i>MENU</i> to exit.	
• Poor reception due to weak signals, or too much noise might activate the BLUE SCREEN function	

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6/1/00, 11:44 AM

Connecting video equipmen	t for playback of video mat	
	ted to video equipment as s	shown below, the material being play
Connecting video device equ	ipped with video output te	erminal.
CONNECTIONS		(Front connection terminals of TV)
		To AUDIO OUTPUT (L)
Camcorder	₩ ₩ monocelle with the second se	(Rear connection terminals of TV

To watch video material playback.

- Press the Remote's *INPUT* to select VIDEO INPUT mode to which the video equipment you want to playback is connected.
- The external VIDEO INPUT mode will change as follows each time the INPUT is pressed.

→ AIR → INPUT 1 → INPUT 2 - or (IN-1) (IN-2) CABLE Rear Front

 INPUT mode can be selected by pressing either the CH UP (▲) on the TV remote control when the TV is set to the highest channel stored in memory, or by pressing the CH DOWN (▼) when it is set to the lowest channel.

NOTE:

- When connecting video or audio equipment to the television, be sure that the power is turned off in order to prevent damage to either the television or the equipment being connected.
- It is the intent of SHARP that this product be used in full compliance with the copyright law and that prior permission be obtained from copyright owners whenever necessary.
- For detailed information on the connection and use of auxiliary equipment, refer to the instruction manuals of the equipment being used.
- The connection cords can be obtained from your local video store.

Before Calling for Service

Check these items and see if you can correct trouble with a slight adjustment of the controls.

QUICK SERVICE CHECK LIST	PROBLEM	No Playback of VCR and Disk Player	No Picture or Sound from External Video/Audio Products	Remote Control Doesn't Work	Bars on Screen	Picture Distorted	Picture Rolls Vertically	No Color	Poor Reception on Some Channels	Weak Picture	Lines or Streaks in Picture	Ghosts in Picture	Picture Blurred	Sound OK, Picture Poor	Picture OK, Sound Poor	No Picture or Sound	Dark and Blank Picture	External Electrical Noise Interfering with TV's Operation
POSSIBLE REMEDY		2 @	2>	ш.		<u> </u>	Δ.	2	<u> </u>	>		0	<u> </u>	S		2		Ш ≤
Try a new channel, if OK, then possi station trouble.	ble					x	х	x	х	x	x	x	x	х	x	x		
Is TV plugged in? Power at outlet?			Х	Х												Х		
Is TV's POWER button on?			х													х		
Is antenna connected to terminal on the back of the set?								х	х	х		х		х		x		
If outside antenna is being used, che for broken wire.	ck				x	x	х	x	х	x	x	x	x	х		x		
Check for local interference or extern electrical noise.	nal				х		Х		х		x	х		х	x			x
Turn off with POWER button and the turn it on after about a minute.	n		х													x		
Adjust COLOR control.								Х										
Adjust PICTURE control.										х				х				
Check external Video/Audio products: look for loose/broken connection leads. (Refer to page 30)		x	x											х	x	x		
Check batteries of Remote Control.				X														
Change Closed Caption mode to "OFF"/ Energy Save mode to "OFF".																	x	
Unplug the TV and plug it in again af two minutes.	ter			x			х	x	х	х				х	x	x	x	x

NOTE:

 When viewing in TEXT mode, if no TEXT broadcast is being received, the screen may become dark and blank. Should this occur, set the Closed Caption mode to "OFF".



(Dark and Blank Picture)

Calling for Service

For location of the nearest Sharp Authorized Servicers, or to obtain product literature accessories, supplies, or customer assistance, please call 1-800-BE-SHARP.



Antes de llamar al servicio de reparaciones

Verifique estos items para ver si usted mismo puede solucionar el problema.

LISTA DE COMPROBACIONES DE SERVICIO RAPIDO	PROBLEMA	El vídeo o el reproductor de discos de video no reproducen imágenes	El equipo de video/audio externo no produce imágenes ni sonido	El mando a distancia no funciona	Barras en la pantella	magen distorsionada	La imagen se desplaza verticalmente	No hay color	Mala recepción de algunos canales	magen débil	Franjas en la imagen	magen fantasma	magen borrosa	Sonido adecuado, imagen mala	Sonido adecuado, sonido malo	No hay imagen ni sonido	magen oscura y en blanco	nterferencia de ruido eléctrico externo con el funcionamento del televisor
POSIBLE SOLUCIÓN		El v vide	El e proc	ш	Bari	Ima	Lai	No No	Mal	Ima	Frai	Ima	Ima	Son	Son	٩ No	Ima	Inte con
Pruebe con otro canal y si todo está bi el problema puede ser de la emisora.	en,					x	х	x	х	x	х	x	x	x	x	x		
Está conectado el televisor? Llega electricidad al tomacorrientes?			х	x												x		
Está conectado el interruptor del televis	or?		Х													х		
Está conectado la antena al terminal de panel posterior del televisor?	el							x	х	x		х		x		x		
Si utiliza una antena exterior, cercióres de que el cable no esté dañado.	e				х	х	х	х	х	х	х	х	х	x		х		
Compruebe si hay interferencia local.					х		Х		Х		Х	х		х	Х			Х
Desconecte el interruptor POWER y vuelva a conectarlo después de transcu un minuto.	urrir		x													x		
Ajuste el control de COLOR.								Х										
Ajuste el control de MATIZ.										Х				Х				
Verifique los productos externos de Vid Audio, revise si hay gufas de conexione sueltas o rotas.		x	x											x	x	x		
Compruebe el estado de las pilas del mando a distancia.				x														
Desactive (OFF) el modo CLOSED CAPTION / Desactive (OFF) el modo Ahorro de Energía (Energy Save).																	x	
Desenchufe el televisor y vuelva a enchufarlo despúes de dos minutos.				х			x	x	х	x				x	х	x	x	x

NOTA:

 Cuando se ve en modo TEXTO sin recibir emisiones de TEXTO, la pantalla puede ponerse en blanco y negro. Si ocurriera ésto, ponga el modo CLOSED CAPTION en OFF.



(Imagen oscura y en blanco)

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Notes			

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6/1/00, 11:45 AM

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Notes		

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6/1/00, 11:45 AM

Limited Warranty

CONSUMER LIMITED WARRANTY

SHARP ELECTRONICS CORPORATION warrants to the first consumer purchaser that this Sharp brand product (the "Product"), when shipped in its original container, will be free from defective workmanship and materials, and agrees that it will, at its option, either repair the defect or replace the defective Product or part thereof with a new or remanufactured equivalent at no charge to the purchaser for parts or labor for the period(s) set forth below.

This warranty does not apply to any appearance items of the Product nor to the additional excluded item(s) set forth below nor to any Product the exterior of which has been damaged or defaced, which has been subjected to improper voltage or other misuse, abnormal service or handling, or which has been altered or modified in design or construction.

In order to enforce the rights under this limited warranty, the purchaser should follow the steps set forth below and provide proof of purchase to the servicer.

The limited warranty described herein is in addition to whatever implied warranties may be granted to purchasers by law. ALL IMPLIED WARRANTIES INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE PERIOD(S) FROM THE DATE OF PURCHASE SET FORTH BELOW. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Neither the sales personnel of the seller nor any other person is authorized to make any warranties other than those described herein, or to extend the duration of any warranties beyond the time period described herein on behalf of Sharp.

The warranties described herein shall be the sole and exclusive warranties granted by Sharp and shall be the sole and exclusive remedy available to the purchaser. Correction of defects, in the manner and for the period of time described herein, shall constitute complete fulfillment of all liabilities and responsibilities of Sharp to the purchaser with respect to the Product, and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise. In no event shall Sharp be liable or in any way responsible, for any damages or defects in the Product which were caused by repairs or attempted repairs performed by anyone other than an authorized servicer. Nor shall Sharp be liable or in any way responsible for any incidental or consequential economic or property damage. Some states do not allow the exclusion of incidental or consequential damages, so that above exclusion may not apply to you.



THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Model Specific Section	
Your Product Model Number & Description:	27N-S50, 27 inch Color Television (Be sure to have this information available when you need service for your Product.)
Warranty Period for this Product:	One (1) year parts and 90 days labor for 25 inch models; one (1) year parts and one (1) year labor for 27, 32, and 36 inch models. The warranty period continues for an additional one (1) year, for a total of two (2) years, with respect to the picture tube(s) in the Product for parts only. Labor and service are not provided free of charge for this additional period.
Additional Item(s) Excluded from Warranty Coverage (if any):	Non-rechargeable batteries.
Where to Obtain Service:	From a Sharp Authorized Servicer located in the United States. To find the location of the nearest Sharp Authorized Servicer, call Sharp toll free at 1-800-BE-SHARP.
What to Do to Obtain Service:	Contact your Sharp Authorized Servicer to obtain in-home service for this Product. The Servicer will come to your home and if it is necessary to remove the Product, the Servicer will reinstall it. Be sure to have Proof of Purchase available.

TO OBTAIN ACCESSORY OR PRODUCT INFORMATION, CALL 1-800-BE-SHARP OR VISIT www.sharp-usa.com





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